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STATUS OF THE CLAIMS

What is claimed is:

 (Currently Amended) A raised microstructure for use in a silicon based device, the raised microstructure comprising:

a generally planar thin-film plate having a periphery;

a ribbed sidewall, the ribbed sidewall including a plurality of ridges and grooves, the ridges and grooves extending about substantially the entire periphery and further being arranged substantially perpendicular to an edge of the thin-film plate defined by the periphery, the ribbed sidewall arranged to support the generally planar thin-film plate along the periphery;

wherein the plurality of ridges and grooves of the ribbed sidewall form at least one rib, and wherein the at least one rib stiffens the ribbed sidewall.

- (Previously Presented) The raised microstructure of claim 1 wherein the ridges and grooves of the ribbed sidewall are parallel and equally spaced to form a corrugated sidewall.
- 3. (Original) The raised microstructure of claim 1 wherein the rib has a generally arcuate cross section.
- 4. (Previously Presented) The raised microstructure of claim 1 wherein the rib has a generally triangular cross section.

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- (Original) The raised microstructure of claim 1 wherein the rib has a generally rectangular cross section.
- (Original) The raised microstructure of claim 1 wherein the thin-film comprises
 one plate of a silicon based capacitive transducer.
- 7. (Original) The raised microstructure of claim 1 wherein the thin-film comprises a rigid backplate of a silicon based microphone.
- 8. (Currently Amended) A silicon based electret microphone having a backplate comprising:
 - a generally planar thin-film plate <u>having a periphery defining an edge of the</u>
 <u>thin-film plate;</u>
 - a sidewall having a plurality of ridges and grooves, the sidewall arranged to support the thin-film plate, the ridges and grooves extending about substantially the entire periphery and further being arranged substantially perpendicular to the edge;
 - wherein the plurality of ridges and grooves of the sidewall cooperate to form at least one-ribs about the periphery.
- (Previously Presented) The microphone of claim 8 wherein the ridges and grooves of the ribbed sidewall are parallel and equally spaced to form a corrugated sidewall.

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- 10. (Original) The microphone of claim 8 wherein the rib has a generally arcuate cross section.
- (Previously Presented) The microphone of claim 8 wherein the rib has a generally triangular cross section.
- 12. (Previously Presented) The microphone of claim 8 wherein the rib has a generally rectangular cross section.
 - 13. (Original) The microphone of claim 8 wherein the sidewall includes a plurality of ribs.
 - 14. (Original) The microphone of claim 13, wherein the ribs are equally spaced about the sidewall.
 - 15. (Currently Amended) A raised microstructure for use in a silicon based device, the raised microstructure comprising:
 - generally planar element with a first thickness and a periphery <u>defining an</u>

 <u>edge</u>;
 - a sidewall including a plurality of ridges and grooves, the sidewall having a second thickness;
 - said sidewall being substantially continuous about the entire periphery and supporting said planar element at said periphery above a substrate at a distance;

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wherein said plurality of ridges and grooves of the sidewall cooperate to form a plurality of ribs.

- 16. (Original) The raised microstructure of claim 15 wherein said first thickness is small compared to the lateral extent of the said planar element.
- 17. (Original) The raised microstructure of claim 15 wherein said second thickness is approximately equal to the said first thickness.
- 18. (Original) The raised microstructure of claim 15 wherein said distance is large compared to said second thickness.
- 19. (Original) The raised microstructure of claim 15 wherein the ribs follow a periodic path of the periphery, inwards and outwards with respect to the centroid of the planar element.
- 20. (Original) The raised microstructure of claim 19 wherein the path is arcuate.
- 21. (Previously Presented) The raised microstructure of claim 1 wherein the sidewall substantially completely encloses the area beneath the thin-film.
- 22. (Previously Presented) The microphone of claim 8 wherein the sidewall substantially completely encloses the area beneath the thin-film.

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23. (Previously Presented) The raised microstructure of claim 15 wherein the sidewall substantially completely encloses the area beneath the element.